WEAR CONTAMINATION FLUID CONDITION

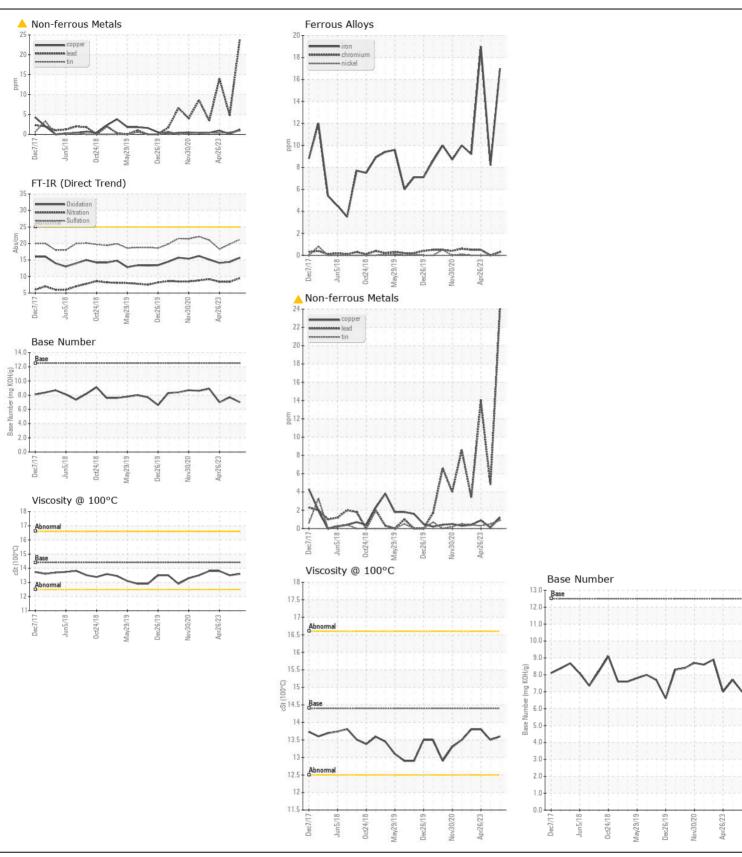
ABNORMAL NORMAL NORMAL

Machine Id

## **LOUISIANA STRONG**

Port Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		MW0042722	MW0057314	
	Sample Date		Client Info		08 Apr 2024	10 Jan 2024	26 Apr 2023
	Machine Age	hrs	Client Info		50658	48729	43428
	Oil Age	hrs	Client Info		3690	1732	3800
	Filter Age	hrs	Client Info		1900	1732	1900
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>75	17	8	19
The lead level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>8	<1	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		12	10	12
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	0
	Lead	ppm	ASTM D5185m		<u>^</u> 24	5	14
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	4	9
CONTAININATION	Potassium		ASTM D5185m		2	3	5
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.7	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.4	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.2	19.8	18.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185m	. 75	10	6	5
LUID CONDITION	Boron	ppm	ASTM D5185m		71	96	119
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		37	34	51
	Manganese	ppm	ASTM D5185m	230			<1
	Magnesium	ppm	ASTM D5185m	0	<1 618	<1 614	617
	Calcium	ppm	ASTM D5165III		1782	1607	1687
	Phosphorus	ppm	ASTM D5185m		772	789	756
	Zinc		ASTM D5185m		860	930	900
	Sulfur	ppm	ASTM D5185m		3469	3105	2896
	Oxidation	Abs/.1mm	*ASTM D7414		3469 15.7	14.4	14.1
	Base Number (BN)				7.0	7.7	7.0
	Dase Mullipel (DIV)	ilig KOH/g	40 1 M DZ030	12.5	7.0	1.1	7.0







Certificate L2367

Report Id: AMEWAG [WUSCAR] 06153926 (Generated: 04/23/2024 11:05:49) Rev: 1

Laboratory Sample No.

Lab Number : 06153926 Unique Number: 10989349 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : MW0042722 Received : 19 Apr 2024 : 23 Apr 2024

**Tested** Diagnosed

: 23 Apr 2024 - Don Baldridge

AMERICAN RIVER TRANSPORTATION CO 8400 RIVER RD, PO BOX 656

WESTWEGO, LA US 70094-2317

Contact: KEVIN CHIASSON kevin.chiasson@adm.com

T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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